| Ind | lex of ( | Claims |  |
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|     |          |        |  |

| App | lication | No. |
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09/676,447

Examiner

Nasser G Moazzami

Applicant(s)

SHIRAI ET AL.

Art Unit

2187

| <b>√</b> | Rejected |
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| II       | Allowed  |

- (Through numeral) Cancelled

Restricted

| Z | Non-Elected  |
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| _ | Interference |

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|          |          |               |            |          |              |          | J            |          |          |          |          |          |                 |          | -              |           |         | ۰ـــــــــــــــــــــــــــــــــــــ |                     |          |          | J L        |          |          |               |         |         |
|----------|----------|---------------|------------|----------|--------------|----------|--------------|----------|----------|----------|----------|----------|-----------------|----------|----------------|-----------|---------|--|---------------------|----------|----------|------------|----------|----------|---------------|---------|---------|
| Cla      | aim      |               |            |          | _ (          | Dat      | e            |          |          |          | Cla      | aim      |                 |          |                | Di        | ate     |  |                     |          | Cl       | aim        |          |          |               | Da      | ate     |
| Final    | Original | 030805        |            |          |              |          |              |          |          |          | Finat    | Original |                 |          |                |           |         |  |                     |          | Final    | Original   |          |          |               |         |         |
| 1        | 1        | =             | -          | -        | 1            | $\vdash$ |              |          |          | _        |          | 51       |                 | $\dashv$ | $\top$         | $\dagger$ | $\top$  | T                                      | 1 †                 | _        |          | 101        | $\dashv$ | $\dashv$ | $\top$        | +       | 十       |
| 2        | 2        | =             | <u> </u>   |          | Τ            |          |              |          | П        | _        |          | 52       | П               | T        | T              | T         | 1"      | 1 -                                    | $\Box$              |          |          | 102        | 寸        | 寸        | _             | 十       | $\top$  |
| 7        | 3        | =             | Г          |          | Г            | Π        | П            |          | П        | _        |          | 53       | П               | T        | 1              | $\top$    |         |  | $\Box$              |          |          | 103        | $\neg$   |          | T             | T       |         |
| 3        | 4        | =             |            |          |              |          |              |          |          |          |          | 54       |                 |          |                |           |         |  |                     |          |          | 104        |          |          |               | Т       |         |
| 4        | 5        | =             |            |          |              |          |              |          |          |          |          | 55       |                 |          |                |           |         |  |                     |          |          | 105        |          |          |               | T       |         |
| 5        | 6_       | =             |            |          |              |          |              |          |          |          |          | 56       |                 |          |                |           |         |  |                     |          |          | 106        |          |          |               |         | $\perp$ |
| 6        | 7        | =             |            |          |              | Ĺ        | <u> </u>     | <u> </u> | Ш        | _        |          | 57       | Ш               |          | _              | Ц.        | $\perp$ |  |                     | _        |          | 107        | $\perp$  |          |               | L       |         |
| 8        | 8        | =             |            | _        | _            |          |              | L        | Ш        | _        | <u> </u> | 58       | Ц               | _        | _              | $\perp$   | $\perp$ | _                                      | $\sqcup$            | _        | <u> </u> | 108        | _        | _        | _             | $\perp$ |         |
| 9        | 9        | =             | _          |          | _            | <u> </u> | <u> </u>     | L        |          | _        |          | 59       | Ш               | _        | _              | _         | _       | _                                      | $\sqcup$            | _        | <u></u>  | 109        | _        | _        | _             | 4       |         |
| 10       | 10       | =             |            | L.       | _            |          | _            | L.       |          | _        | ļ        | 60       | $\sqcup$        | 4        | _              | 4         | $\bot$  | _                                      | $\sqcup$            | _        |          | 110        | 4        | _        |               |         |         |
| 17       | 11       | Ξ             | _          |          | _            | _        | -            |          |          | 4        | <u> </u> | 61       | $\vdash$        | $\dashv$ | -              | 4         | —       | ┼                                      | $\vdash$            | 4        |          | 111        | $\dashv$ | $\dashv$ | $\bot$        | $\bot$  | +-      |
| 11       | 12       | =             | _          | <u> </u> | <u> </u>     | <u> </u> | <u> </u>     | _        | Н        | _        | -        | 62       | $\vdash$        | 4        | -              | +         | +       | _                                      | $\vdash$            | 4        | <u> </u> | 112        | _        | 4        | $\dashv$      | +       | +       |
| 12       | 13       | =             | <u> </u>   | <u> </u> | L            | _        | -            | $\vdash$ |          | -        |          | 63       | -               | -        |                | +         | _       | +                                      | $\vdash$            | 4        | <u> </u> | 113        | -        | -        |               | +       | -       |
| 13       | 14       | =             |            | <u> </u> | ⊢            | H        | -            |          |          |          |          | 64       | $\vdash$        | +        | +              | $\dashv$  | -       | +-                                     | $\vdash$            | _        |          | 114        | $\dashv$ | -+       |               | +       |         |
| 14       | 15<br>16 | =             | ⊢          | <u> </u> | ┝            | ⊢        | -            |          |          |          |          | 65       |                 | 4        | -              | -         | +       | +                                      | $\vdash$            | 4        | <b></b>  | 115        | -        | $\dashv$ | -             | +       | +       |
| 18<br>15 | 17       | =             | <u> </u>   | ┝        | ⊢            | -        | -            |          |          | $\dashv$ | -        | 66       | $\vdash$        | +        | +              | +         | +       | +                                      | ╂╼┼                 | -        |          | 116        | -        | -        | +             | +       | +       |
| 16       | 18       | =             | $\vdash$   | -        | -            | ┝        | ⊢            |          |          | _        |          | 67<br>68 |                 | +        | +              | +         | +       | +                                      | +                   | -        |          | 117<br>118 | $\dashv$ | -        | +             | ╀       | +       |
| 10       | 19       | <del> -</del> | <b> </b> - | -        | -            | ⊢        | ⊢            | -        |          |          |          | 69       | H               | +        | +              | +         | +       | +                                      |                     |          | -        | 119        | -+       | -        | -             | +       | +       |
|          | 20       | -             | ⊢          | ┝        | -            | ⊢        | -            |          |          |          | -        | 70       | ⊢⊦              | -        | +              | +         |         | +                                      | $\vdash$            | -        |          | 120        | -        | $\dashv$ | +             | +       | +       |
|          | 21       | H             | $\vdash$   | _        | <del> </del> | $\vdash$ | ├            | ├        |          | -        | _        | 71       | ┝╌┼             | +        | $\dashv$       | +         | +       | +                                      | $\vdash$            | $\dashv$ | -        | 121        | -        | +        |               | ┿       | +       |
| -        | 22       |               |            | -        |              | -        | $\vdash$     | -        | -        |          | -        | 72       | $\vdash$        | +        | +              | +         | +       | +                                      | $\vdash$            | -        |          | 122        | $\dashv$ | +        |               | +       | +       |
| <b>-</b> | 23       | -             |            |          | -            | -        | $\vdash$     | ┢╌       | $\vdash$ | $\dashv$ |          | 73       |                 | +        | +              | +         | +       | +                                      | ╁┼                  | $\dashv$ |          | 123        | -+       |          |               | ╁       | +-      |
|          | 24       |               |            |          |              | -        | -            | $\vdash$ | $\vdash$ | _        |          | 74       | $\vdash$        | $\pm$    | $\top$         | +         | $\top$  | +                                      | ┼-┼                 | _        | _        | 124        |          | -+       | +             | +       | +       |
| <b></b>  | 25       |               |            |          |              |          |              | ┢        | $\Box$   | _        |          | 75       | $\vdash$        | $\top$   | $\top$         | +         | $\top$  | T                                      | $\vdash$            | $\dashv$ |          | 125        | 寸        | $\dashv$ | _             | +       | +       |
|          | 26       |               |            |          |              |          | $\vdash$     |          |          | 1        |          | 76       | $\vdash$        | $\dashv$ | $\top$         | $\top$    | $\top$  | T                                      | $\Box$              | 1        |          | 126        |          | $\neg$   | $\dashv$      | 十       | +       |
|          | 27       |               |            |          |              |          |              |          | $\Box$   | ┪.       |          | 77       |                 | 十        | $\top$         | 十         | ┪       | T                                      |                     | 7        |          | 127        | T        | T        | 十             | 十       | 十       |
|          | 28       |               |            |          |              |          |              |          | $\neg$   | ┪.       |          | 78       |                 | 十        | $\top$         | $\top$    | $\top$  | 1                                      | $\Box$              | ┑        |          | 128        |          | 寸        | $\neg$        | ╅       | $\top$  |
|          | 29       |               |            |          |              |          |              |          |          |          |          | 79       |                 | T        | T              | T         |         | 1                                      |                     |          |          | 129        |          |          | $\top$        | 十       | $\top$  |
|          | 30       |               |            |          |              |          |              |          |          | $\neg$   |          | 80       |                 | $\neg$   |                |           |         |  |                     |          |          | 130        |          | $\neg$   | $\neg \vdash$ | $\top$  | $\top$  |
|          | 31       |               |            |          |              |          |              |          |          |          |          | 81       |                 | $\neg$   | T              | ┪         |         |  | П                   |          |          | 131        | $\neg$   |          | $\neg \vdash$ | T       | $\top$  |
|          | 32       |               |            |          |              |          |              |          |          |          |          | 82       |                 |          |                |           |         |  |                     |          |          | 132        |          |          |               | $\perp$ |         |
|          | 33       |               |            |          |              |          |              | $\Box$   | $\Box$   |          |          | 83       | oxdot           |          |                |           |         |  | $\Box$              | _        |          | 133        | $\Box$   |          |               | $\perp$ |         |
|          | 34       | Ш             | Щ          |          |              |          | L            | L_       | Ш        | _        |          | 84       | $\sqcup$        |          | $\perp$        | $\perp$   |         | _                                      | $\sqcup \downarrow$ | _        |          | 134        | $\perp$  | $\perp$  |               | $\perp$ |         |
|          | 35       | Ш             |            |          | Щ            | _        | _            | _        | Ц        | _        |          | 85       | $\sqcup$        | $\perp$  | $\bot$         | $\perp$   |         | _                                      | $\sqcup \bot$       | _        |          | 135        | _        |          |               | $\perp$ | $\perp$ |
|          | 36       |               |            | _        | L_           | <u> </u> | _            | <u> </u> | Ц        | _        |          | 86       | $\sqcup$        | $\perp$  | $\perp$        | $\perp$   | 4       | _                                      | Ш                   | 4        |          | 136        | _        | _        | $\perp$       | 丄       | 1       |
| <u> </u> | 37       | Ш             | Щ          |          | Щ            | $\vdash$ | <u> </u>     | <u> </u> | Щ        |          |          | 87       | $\sqcup$        | $\dashv$ | $\bot$         | 4         | 4       | <del> </del>                           | $\sqcup \bot$       | _        |          | 137        | _        |          | $\perp$       | $\bot$  | $\bot$  |
| <u> </u> | 38       |               | _          |          | $\sqcup$     | <u> </u> | $\vdash$     | $\vdash$ | $\sqcup$ | _        | <u> </u> | 88       | $\vdash$        | +        | +              | +         | 4       | $\vdash$                               | $\vdash \vdash$     | 4        |          | 138        |          | $\dashv$ | $\perp$       | $\bot$  | +       |
| <u> </u> | 39       | Н             |            |          | $\vdash$     | <u> </u> | <u> </u>     | $\vdash$ | $\dashv$ | $\dashv$ | -        | 89       | $\vdash \vdash$ | $\dashv$ | +              | +         |         | +-                                     | ₩                   | -        |          | 139        | +        | $\dashv$ | -             | +       | +       |
|          | 40       | Н             |            |          | $\vdash$     | <u> </u> | <u> </u>     | $\vdash$ | $\vdash$ | -        | $\vdash$ | 90       | $\vdash$        | +        | -              | +         | +       | 1                                      | $\vdash \vdash$     | -        |          | 140        | $\dashv$ | $\dashv$ | +             | +       | +       |
|          | 41<br>42 | Н             | <u> </u>   | _        | $\vdash$     | ├-       |              | -        |          | $\dashv$ | $\vdash$ | 91       | $\vdash$        | +        | +              | +         | +       | +                                      | $\vdash$            | $\dashv$ |          | 141<br>142 | $\dashv$ | $\dashv$ | +             | +       | +       |
|          | 43       | Н             | -          | _        | -            | <u> </u> | ├            | ├        | $\vdash$ | $\dashv$ | $\vdash$ | 92<br>93 | $\vdash$        | +        | +              | +         | +       | +                                      | ╁┼                  | $\dashv$ |          | 142        | +        | $\dashv$ | +             | +       | +       |
| -        | 44       | Н             |            |          | <u> </u>     | $\vdash$ | <del> </del> | $\vdash$ | $\vdash$ | $\dashv$ | $\vdash$ | 94       | -+              | $\dashv$ | +              | +         | +-      | ╁                                      | ++                  | $\dashv$ |          | 144        | +        | $\dashv$ | +             | +       | +       |
| -        | 45       | $\vdash$      |            |          |              |          | <u> </u>     | -        | $\vdash$ | $\dashv$ |          | 95       | $\vdash$        | +        | <del> </del> - | +         | +       | +                                      | ╁╾╁                 | $\dashv$ | $\vdash$ | 145        | $\dashv$ | +        | +             | +       | +       |
| <u> </u> | 46       | Н             | $\vdash$   |          |              | $\vdash$ |              | -        | $\vdash$ | $\dashv$ |          | 96       | $\dashv$        | +        | +              | +         | +       | +                                      | ╁┼                  | $\dashv$ | $\vdash$ | 146        | +        | +        | +             | +       | +       |
| <b>—</b> | 47       | Н             | H          |          | $\vdash$     | $\vdash$ |              | $\vdash$ | $\vdash$ | $\dashv$ | $\vdash$ | 97       | $\vdash$        | +        | -              | +         | +       | +                                      | + +                 | $\dashv$ | $\vdash$ | 147        | $\dashv$ | -        | +             | 十       | +       |
|          | 48       | Н             |            |          |              | $\vdash$ | $\vdash$     | $\vdash$ | $\dashv$ | $\dashv$ | +        | 98       | +               | $\dashv$ | +              | +         | +       | $^{+}$                                 | 1 1                 | $\dashv$ |          | 148        | $\dashv$ | +        | +             | +       | +       |
|          | 49       | $\vdash$      |            |          |              |          |              | $\vdash$ | $\vdash$ | 7        |          | 99       | $\dashv$        | $\dashv$ | +              | +         | +       | T                                      | t                   | $\dashv$ |          | 149        | 十        | 十        | +             | +       | +       |
|          | 50       | П             |            |          |              |          | Т            | Т        | $\Box$   | $\dashv$ |          | 100      |                 | $\top$   | $\top$         | +         | 1       | 1                                      | $\vdash$            | $\neg$   | <b>—</b> | 150        | 1        | $\neg$   | $\dashv$      | +       |         |